

^{144}Eu $Z = 63$ $N = 81$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 1188.601 (0.011) MeV

Qbeta+ = 6.346 (0.011) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-0.168	(0.027)	-----		
144EU 1	0.000	1+			1 10.2 S 1
144EU 2	0.333	2+			2
144EU 3	0.347	3+			3
144EU 4	0.580	4+			4
144EU 5				0.604 (3)+	5
144EU 6				0.622 (1)+	6
144EU 7				0.630 (2)-	7
144EU 8	0.763	5+			8
144EU 9				0.784 (1,2)+	9
144EU 10			0.887 5-		10

144EU 11				0.895 (4+)	11
144EU 12				0.908	12
144EU 13				0.926 (6-)	13 27.8 NS 16
144EU 14				0.975	14
144EU 15				1.048 (4)	15
144EU 16				1.074	16
144EU 17				1.120 (7-)	17
144EU 18				1.128 (8-)	18 1.0 US 1
144EU 19				1.146	19
144EU 20				1.194 (6,7)-	20

144EU 21				1.201	21
144EU 22				1.294	22
144EU 23				1.304	23
144EU 24				1.338 (9-)	24 5.0 NS 5
144EU 25				1.402	25
144EU 26				1.560	26
144EU 27				1.669 (9+)	27 76 PS 7
144EU 28				1.805	28
144EU 29				1.930	29
144EU 30	2.362	1+			30

144EU 31	2.433	1+			31
144EU 32				2.693 (1+)	32
144EU 33				2.710 (1+)	33
144EU 34	2.805	1+			34
144EU 35				2.828 (1+)	35

S-p	=	3.391	(0.011)	-----
S-n	=	9.449	(0.015)	-----
S-2p	=	9.055	(0.026)	-----
S-2n	=	20.453	(0.032)	-----
S-alpha	=	-0.168	(0.027)	-----
S+p	=	-4.596	(0.022)	
S+n	=	-10.444	(0.011)	
S+2p	=	-6.722	(0.046)	
S+2n	=	-17.641	(0.012)	
S+alpha	=	2.657	(0.016)	
gap p	=	-1.205	(0.025)	
gap n	=	-0.995	(0.019)	
gap 2p	=	2.333	(0.053)	
gap 2n	=	2.812	(0.034)	
gap alpha	=	2.489	(0.031)	